Native PAGE

AIM: To perform Native PAGE for nucleic acids (DNA/RNA).

Materials Required:

- 10X TAE
- 1X TAE
- 40% or 30% Polyacrylamide
- Autoclaved MilliQ
- APS
- TEMED
- EtBr

Procedure:

- ➢ Set up the apparatus before making the gel. Make sure there is no leakage.
- ➢ Take a 25ml beaker and add 1ml of 10X TAE.
- ➢ Add 2ml of 40% Polyacrylamide (2.66ml if 30% PAA) and make the solution up to 10ml with autoclaved Milli-Q.
- ➢ Add 80ul APS and 10ul TEMED. Mix the solution quickly and pour it into the cassette immediately.
- ➢ Let it set for 20-30 mins.
- ➢ Set up the plates along with the gel in the box within the assigned space. Make sure you have placed it properly so that there is no leakage.
- ➢ Fill the box with 1X TAE till the mark shown in the box.
- ➢ Load your samples.
- ➢ Make the appropriate negative and positive connections, set up the time and volt, and run the gel.
- ➢ After the running is completed, remove the gel from the cassette and put it into a solution containing 50ml water and 2ml EtBr.
- ➢ Visualise and analyse the gel.